The background of the entire page is a photograph of a fishing net. The net is made of a fine, grey mesh and is suspended by several thick, dark metal chains. A red buoy is visible in the upper left portion of the net. The lighting is bright, creating shadows on the net's surface.

CASE STUDY

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DSL JETTY ALTERNATIVE ACCESS



1 / Introduction

This project introduces an engineered suspension deck to offer an encapsulated working area for blasting and painting works. The design spreads weight across pylons, reducing the load on the jetty's under-structure, which had been degraded by corrosion. Sponge jet technology was employed for the safe removal of high-lead coatings. The reusable blast media is recycled by a vacuum recovery system, which filters lead-contaminated waste into sealed drums for collection by licensed

removalists. The suspension deck also provides an access system tailored to the structure's requirements, containing airborne contaminants to protect personnel and the environment. Throughout the project, airborne contaminant levels remained below national exposure standards. The project was completed without disrupting the jetty's operations, preserving the client's production levels.

2 / Innovation

The engineered suspension deck provided a complete encapsulated working area for blasting and paint works to be carried out. System is being used on a rolling work front basis. Design of the system allowed weight loading to be spread across the pylons rather than hanging from the under structure of the jetty which had been de-rated in recent years due to the extensive corrosion.

Sponge jet technology was utilized for safe removal of the existing coating which contained high levels of lead. This was done with a reusable blast media which is continuously recycled via a self-contained vacuum recovery system which filters out the fines and lead contaminated waste into sealed 204Ltr drums which are then sealed ready for collection by licenced removalists.

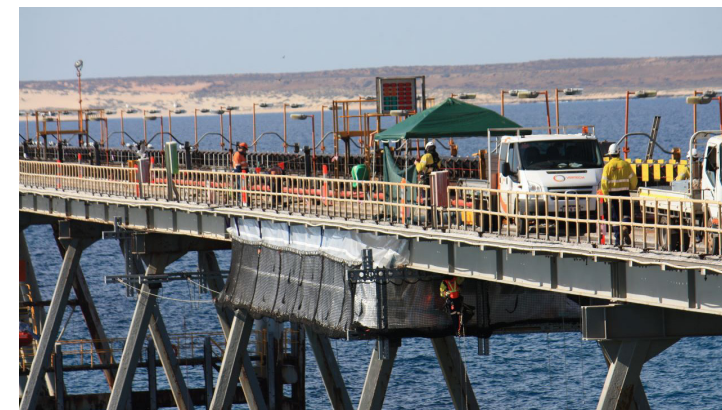
3 / Project Summary

The recently completed project involved the strategic implementation of an engineered suspension deck, which served as a comprehensive, encapsulated workspace for essential blasting and paint works. This system was designed to function on a rolling work-front basis, with the unique design allowing weight loading to be evenly distributed across the pylons. This critical feature mitigated the stress on the jetty's under-structure, which has experienced de-rating due to extensive corrosion.

The project innovatively utilised sponge jet technology and a special reusable blast media to safely and efficiently remove existing high-lead coatings. This reusable blast media was continuously recycled through a self-contained vacuum recovery system. This system effectively filtered out the fines and the lead-contaminated waste, confining them into sealed 204Ltr drums. These drums were then made ready for collection by licensed removalists,

ensuring proper disposal of hazardous waste. Further enhancing its functionality, the engineered suspension deck offered an articulate access system tailored to the unique structural requirements. It incorporated a fully encapsulated habitat, effectively containing airborne contaminants from the personnel operating on the jetty and the immediate environment.

Environmental monitoring was conducted throughout the project's lifecycle, ensuring airborne contaminant levels remained well below the recommended national exposure standard. Remarkably, the project's execution caused zero disruption to the operational functions of the jetty. This result ensured there was no loss of production for the client, demonstrating the project's successful balance of essential maintenance and operational continuity.



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